

DANIEL HEALY

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<https://thedanhealy.com>

PROFILE | Highly skilled, educated, and experienced systems engineer, leading design, architecture, requirements, testing, deployment, and technical documentation phases using methodical and process-oriented approaches. Team leader and manager to systems and project engineers, overseeing multiple projects, garnering team-wide collaboration, and employee development of engineering skills.

EXPERIENCE | **TEAM LEAD / MANAGER, SYSTEMS ENGINEERING – CLEVER DEVICES, LTD**

JAN 2019 – PRESENT

Clever Devices is the leader in public transportation technology. They have developed a suite of products to improve both the passenger experience as well as the transit agency's management of technology and data.

- Direct management of up to eight (8) senior-level systems and project engineers
- Coordination and leading of daily scrum meetings
- Responsive to needs of direct reports
- Oversight of multiple projects to ensure schedule appropriately follows a proven and well-structured process
- Leadership role with other Team Leads to drive company-wide solutions, including processes, training, and tools
- Recognized by executives amongst top-ranking senior systems engineers
- Designed and deployed internal web-based tools system benefiting company-wide engineering use
- Co-lead team of India-based developers to develop software coding and deployment standards using Python, Docker, Git, technical documentation
- Leading expert of Docker-based containerization systems and within company, collaborating with multiple departments to provide design guidance
- Chair of multiple initiatives including systems deployment standards, requirements management, technical and design documentation, test IT systems, and more

SENIOR SYSTEMS ENGINEER – CLEVER DEVICES, LTD

MAY 2017 – PRESENT & FEB 2011 – JAN 2015

- Senior technical leadership of transit-based technology projects totaling over \$100M
- Systems design, architecture and deployment of large scale on-vehicle technology and IT systems
- Responsible for defining, writing, and reviewing customer needs and functional system requirements
- Responsible for the entire system engineering development life cycle: concept design, preliminary design, detailed design & development, production, operations & support, and retirement & disposal
- Creation of full and subsystem acceptance test procedures (ATP)
- Design and development of interface control documents (ICD), integrating with multiple external vendors
- Creates and maintains programmatic and technical documentation to ensure efficient planning and execution
- Responsible for management of requirements, interfaces, and changes, as well as feasibility studies, trade analysis, and risk analysis
- Implement performance and reliability analysis of the end to end system

CHIEF TECHNOLOGY OFFICER (CTO) / OWNER – HEALY TECHNOLOGIES LLC

JAN 2008 – PRESENT (FULL TIME FROM JAN 2017 – SEPT 2017)

Healy Technologies is a business technology solutions and services company, offering both newly designed and COTS solutions which meet business needs. Systems engineering and design services offered when new and patent-able technology is possible.

- Systems design and engineering effort for major car wash provider in Virginia Beach, VA
- Providing enterprise-level web hosting services using innovative and self-designed container-based solutions
- Established the business and company's technical vision
- Developed the company's product roadmap and infrastructure
- Using strategic planning, research, and performance testing, chose and qualified the company's IT infrastructure and internal and external processes
- Build, design, and implementation of two on-site hosting locations, including server rack, networking infrastructure, custom built servers, and disaster recovery solutions
- Drove integration through the development cycle by providing input and clarifying the customer requirements for design, integration, deployment, testing, and support phases
- Perform Root Cause Analysis on operational constraints of all complexities to develop and implement solutions both internally and externally
- Proficient in creating and maintaining all project documentation including system design documents and network architecture with MS Word and MS Visio
- Provided project management using accepted management practices
- Ensuring projects are cost and schedule friendly by tracking expenses and utilizing MS Project
- Responsible for system installation, configuration, and administration for:

MS Server OS	Docker	Asterisks VoIP PBX
MS Exchange	VMware ESXi	RedHat Enter. Linux
MS SQL Server	VMware vCenter	CentOS Linux

- Experience installing, configuring, and administrating:

Cisco Routers / Firewalls	SonicWALL Security App.	Active Directory
Cisco HP Dell Switches	VPN (multi-site & client)	Terminal services
SAN (fibre & Ethernet)	Web services	Managed VDI

SENIOR SYSTEMS ENGINEER – JOHNS HOPKINS UNIVERSITY

SEPT 2015 – MAY 2017 (FULL-TIME)

Johns Hopkins University is a leading university on nearly all educational fronts. JHU is part of the larger Johns Hopkins enterprise which is serviced by a single IT department, IT@JH.

- Systems design / architecture and deployment of large scale web related technology and IT systems
- Responsible for full systems engineering lifecycle of next-generation web hosting system, which will service hundreds of users and departments across the enterprise
- Lead engineer responsible for EPIC MyChart and CareLink web hosting systems, servicing hundreds of thousands of users
- Lead engineer within Enterprise Web Hosting group who strives to work with colleagues to improve their processes, documentation, testing, and engineering skills
- Designer of successful initiative to replace defunct documentation system
- Develops next-generation SLA for Enterprise Web Hosting
- Design and implementation of Docker-based enterprise web hosting solution
- Drives revenue into department by taking initiative to work closely with other group to migrate projects from self-hosted to enterprise hosted

LEAD ELECTRICAL ENGINEER – ZERO POINT INC.

JAN 2008 – FEB 2011

Zero Point offers specialized products and training for the explosives ordnance disposal (EOD) industry. Products including real-world training devices as well as tactical tool kits.

- Developed business IT and engineering standards for newly formed company
- Responsible for IT profile and administrator of multiple location business

- Developed electronics training curriculum used to train nationwide bomb squads, US Navy and Army EOD units worldwide
- Instructor of electronics training, as well as hands-on lab creator and manager, including:
 - Effective and easy to understand lectures
 - Electronics fundamentals
 - Advanced DC circuit diagnostics
 - Complex IED creation with soldering instruction
- Worked closely with government agencies in design, replication, and analysis of sophisticated improvised explosive devices (IED)
- Developed all new electrical designs and products which enhance the EOD and bomb squad community

ELECTRICAL ENGINEER – INNOVATIONS IN TRANSPORTATIONS, INC

JAN 2004- DEC 2007

Innovations in Transportations (INIT) is a worldwide provider of public transportation technology solutions.

- Lead engineer for the COPILOTpc Mobile Computer and PIDstation Wayside Bus Signage for North America (Products of INIT, INC.)
- Part of development team for the GPSgo, a GPS receiver that incorporates a gyro and interface to vehicle odometer to simulate GPS coordinates when reliable satellite information is unavailable
- Skilled with design, coding, and implementation of PIC microprocessors
- Hundreds of hours spent on the electronics bench designing, testing, and troubleshooting sensitive computer and RF hardware down to the PCB level
- Involved in many RF projects, including Conventional, Trunked, GPRS/GSM, Digital, and IP based radio systems

EDUCATION | UNIVERSITY OF MARYLAND UNIVERSITY COLLEGE – BALTIMORE, MD

M.S. SYSTEMS ENGINEERING & INFORMATION TECHNOLOGY

OLD DOMINION UNIVERSITY - NORFOLK, VA

B.S. ELECTRICAL ENGINEERING TECHNOLOGY

MINOR: ENGINEERING MANAGEMENT

TIDEWATER COMMUNITY COLLEGE - VIRGINIA BEACH, VA

A. S. ELECTRICAL ENGINEERING TECHNOLOGY

CERTIFICATIONS | DOCKER CERTIFIED ASSOCIATE

COMPTIA SERVER+

PROFESSIONAL MEMBERSHIPS

International Council on Systems Engineering (INCOSE)

Institute of Electrical and Electronics Engineers (IEEE)

COMMUNITY INVOLVEMENT

Founder and leader of local Systems Engineering Meet-Up group

Involvement in local chapter of INCOSE SE group

Participation in local WordPress conferences

PERSONAL ACHIEVEMENTS & HOBBIES

Marathon finisher, including notable Marine Corps Marathon and Shamrock Marathon

Triathlete finisher

Team cyclist from Baltimore to Key West

Involvement in many local non-profit orgs furthering young adult cancer support

Implementation sophisticated smart-home and DVR monitoring system

Pursuing private pilot license

Successful rebuild vintage BMW engineer

Rehab of vintage travel trailer camper